

BRUHAT BANGALORE MAHANAGARA PALIKE

Projects - Yelahanka Zone

Modified Estimate for the work of INCREASING THE IMPOUNDING CAPACITY OF ALLASANDRA LAKE AND ALLIED WORKS

Estimate cost in Lakhs: 15300000.00

Sl. No.	Description of Work	Unit	No.	Dimension			Quantity	Rate	Amount
				L	B	D			
1	Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. P.No.05, I.No.2.3								
		Cum	1	300.00	1.20	1.20	432.00		
			65	0.75	0.75	1.20	43.88		
			1	45.00	1.20	1.20	64.80		
							540.68	142.04	76797.48
2	Providing and laying in position plain cement concrete of mix M10 with OPC Cement @220kgswith 20mm and down size graded granite metal coarse aggregates @0.84 cum and fine aggregates @0.56cum,machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. P.No.13, I.No.4.7								
		Cum	1	300.00	1.20	0.15	54.00		
			65	0.75	0.75	0.15	5.48		
			1	45.00	1.20	0.15	8.10		
			1	35.00	12.00	0.15	63.00		
							130.58	4130.82	539420.55
3	Providing and laying cement concrete using 20mm and down size granite jelly of ready mix concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., including smooth finish in CM 1:3, with all lead and lift etc., complete. (exculsive of cost of steel, fabrication and plastering charges) Ready mixed Cement concrete for Beams, Columns, Staircase and Roof with M-20 (1:1.5:3) (Cement-320 Kg/cum) P.No.19, I.No.4.49.1								
		Cum	1	300.00	2.80	0.15	126.00		
			1	300.00	1.20	0.15	54.00		
			65	0.75	0.75	0.15	5.48		
			1	45.00	0.60	0.15	4.05		
							189.53	4665.06	884189.23
4	Providing and laying cement concrete using 20mm and down size granite jelly of ready mix concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., including smooth finish in CM 1:3, with all lead and lift etc., complete. (exculsive of cost of steel, fabrication and plastering charges) Ready mixed Cement concrete for Beams, Columns, Staircase and Roof with M-25 (1:1:2) (Cement-340 Kg/cum) P.No.19, I.No.4.49.2								
		Cum							
			1	35.00	12.00	0.20	84.00		
							84.00	5179.16	435049.44
5	Providing & fabricating TMT steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tieng with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries etc., complete as per specifications. P.No.19 I.No.4.46								
	Considering 70kg/cum	mt	-	-	-	-	11.00	62646.00	689106.00

Sl. No.	Description of Work	Unit	No.	Dimension			Quantity	Rate	Amount
				L	B	D			
6	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. P.No.17, I.No.4.31								
		Sqm	4	300.00	0.70		840.00		
			1	300.00	0.60		180.00		
							1020.00	217.30	221646.00
7	Filling available excavated earth in sides of foundations in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering including cost of all labour complete as per specifications. P.No.6, I.No.2.10								
	Total Qty = 30% of I.No.01	Cum					162.20	95.4	15474.12
8	Earthwork excavation for foundation in all kinds of soil including boulders up to 0.60m dia (0.113cum) for dam barrage, spilway, intake surface and other appurtenant works and placing the excavated soil nearly in dump area or disposing off the same as per directions of Engineer in charge and lead of 8km for conveying and breaking of clods complete as per specifications. P.No.32, I.No.1								
		Cum	1	45000.00		1.20	54000.00		
							54000.00	124.66	6731640.00
9	Clearing grass and removal of rubbish by manual means and stacking outside the periphery of the area cleaned complete as per specifications. P.No.143, I.No.18.11								
		Sqm	1	0.72			0.72		
							0.72	12449.16	8963.40
10	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:8, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. P.No.25, I.No.5.6								
		Cum	1	65.00	0.90	0.75	43.88		
							43.88	2722.08	119431.26
11	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:8, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. P.No.26, I.No.5.9								
		Cum	1	45.00	0.75	0.75	25.31		
			1	45.00	0.60	0.60	16.20		
							41.51	3186.36	132273.77

Sl. No.	Description of Work	Unit	No.	Dimension			Quantity	Rate	Amount
				L	B	D			
12	Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. P.No.119, I.No.15.4								
		Sqm	2	45.00	1.00		90.00		
							90.00	71.55	6439.50
13	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer- in - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) P.No.265, I.No.37.2								
		Rmt	15	3.00			45.00		
			15	3.00			45.00		
							90.00	864.96	77846.40
14	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint. P.No.265, I.No.37.4								
		Rmt	30	3.00			90.00		
							90.00	272.42	24517.80
15	Providing chain link fencing 50mm size of 8 guage properly stretched between rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint P.No.265, I.No.37.3								
		Sqm	1	45.00	3.00		135.00		
			1	190.00	3.50		665.00		
							800.00	574.52	459616.00
16	Fabricating, supplying and erecting of ISMC 75X40 of 6mm thk welded back to back and in areas of mid section is provided with M.S. Angles 50x50x5mm and inclined members and at supooting ends 40x40x5mm single angle is provided.all members are welded with 6mm gusset plate and entire truss is anchored in RCC column by using 4nos of MS anchor bolts at each support with 10mm thick base plate and shoe plate The work includes cutting, straightening, placing in position of M.S channels sections and chain link fencing 50mm size 8 gauge and wleding wherever necessary, and applying one coat of red oxide primer coat to all the members including cost of all materials, labour charges,& hire charges of machineries for cutting, welding, grinding & erection equipments, etc., complete as per specification P.No.46, I.No.7.3								
	Not Operated	Kg					0.00		
							0.00	108.12	0.00

Sl. No.	Description of Work	Unit	No.	Dimension			Quantity	Rate	Amount
				L	B	D			
17	Providing and laying heavy duty cobble stones 65mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. P.No.117, I.No.14.66.2								
	Toilet Block Approach Road	Sqm	1	140.00	4.00		560.00		
	Toilet Block Front side		1	35.20	13.90		489.28		
	Missing bids		16	12.00	3.00		576.00		
							1625.28	708.08	1150828.26
18	Providing Ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. _do_ for Ceramic Tiles of size 30x30cms P.No.113, I.No.14.36.2								
		Sqm	60	3.00	2.00		360.00		
							360.00	861.78	310240.80
19	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete. of size 450x200x400mm P.No.28, I.No.5.29.1								
		No	900				2000.00		
							2000.00	285.14	570280.00
20	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. Specification No.KRBS 800.3 MORT & H Specification No.800 P.No.191, I.No.24.1								
		Sqm	2	625.00	0.35		437.50		
			2	106.00	0.35		74.20		
			2	960.00	0.35		672.00		
							1183.70	47.59	56332.28
21	Providing and applying two coats of ready mix paint of approved brand after through cleaning of surface to give an even shade complete as per specifications. MORTH Specification No. 803 24.8.1 Painting on Steel Surface. P.No.192, I.No.24.8.1								
		Sqm	2	625.00	0.35		437.50		
			2	106.00	0.35		74.20		
			2	960.00	0.35		672.00		
							1183.70	46.32	54828.98

Sl. No.	Description of Work	Unit	No.	Dimension			Quantity	Rate	Amount
				L	B	D			
	EIRL								
1	KSRRB M300-Construction of Embankment with Material Gravel/Murum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications, (which includes cost of gravel / murum, watering charges & compaction by vibratory roller) MORTH Specification No. 305 (Page No. 144 & Item No. 19.60)								
	Sedementation Tank Bund	Cum	1	46.00	7.80	3.50	1255.80		
	Basic		1	50.00	7.80	3.50	1365.00		
	AW 8%						2620.80	220.32	577414.66
	Total Rate								
2	KSRRB M2500-4.1. Providing and laying Pitching on slopes laid over prepared filter media including boulder apron laid dry in front of toe of embankment complete as per drawing and Technical specifications A. Stone / Boulder MORTH Specification No. 2504, P.No.230 I.No.30.5								
	Sedementation Tank Bund	Cum	2	46.00	0.45	3.50	144.90		
			2	50.00	0.45	3.50	157.50		
	Missing Gaps on Lake bund		4	15.00	0.45	2.00	54.00		
	Basic		3	13.00	0.45	2.00	35.10		
	AW 8%						391.50	1229.04	481169.16
	Total Rate								
3	Manufacturing, supplying & fixing on position MS Grill made out of MS Flats 25x6mm size and center for intermediates verticles of size 40x60mm at 12 cms, c/c 15cms center to center with necessary rings and flowers, rings of 50cms and 25mm dia size made out of 25x6mm MS Flats, Horizontal MS Flats of size 40mmx8mm at bottom with necessary lower supporters of MS Angle of 50x50x6mm of stand & fixing in concrete as per the Grill design drawing and including cutting, bending to shape, welding, grinding etc., complete and all the steel surface shall be applying red lead mix primer coat free from dust and painted with two coats of approved enamel metallic painting. The work includes fixing the MS Grills in position with cement concrete (1:2:4) (Excluding the cost of concrete) with cutting the grooves in the existing concrete surface including cost of all materials, cost of labour charges, an equipment and all other incidental charges for successful compaction of the work with all lead and lift. Approved Rate								
	Grill around lake - Missing bids	Sqm	8	6.60		1.00	52.80		
			8	4.40		1.00	35.20		
			4	8.80		1.00	35.20		
	Bodating Jetty RHS		1	18.50		1.00	18.50		
			6	2.20		1.00	13.20		
							154.90	4338.00	671956.20
4	Providing and laying reinforced cement concrete pipe NP2 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300 MOST Specification No.1000 / 2300 -do- 600mm dia P.No.245 I.No.34.7.5								
	Sedementation Tank Bund	Mtr	20	2.50			50.00		
	Basic						50.00	2445.12	122256.00
	AW 8%								
	Total Rate								

Sl. No.	Description of Work		Unit	No.	Dimension			Quantity	Rate	Amount
					L	B	D			
5	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications P.No.117, I.No.15.74									
	Grill Painting around lake		Mtr	2	625.00	1.00		1250.00		
				2	106.00	1.00		212.00		
				2	960.00	1.00		1920.00		
	Painting to Chainlink fencing - East side			136	2.00	1.80		489.60		
	North side			466	2.00	1.80		1677.60		
	West side			792	2.00	1.80		2851.20		
	South side			504	2.00	1.80		1814.40		
	Basic	76.00						10214.80	82.08	838430.78
	AW 8%	6.08								
	Total Rate	82.08								
6	Miscellanios							L/s		43851.93
								Grand Total Rs.		15300000.00

Certificate:

1. The workspot was inspected and work is found necessary.
2. The area comes within Bruhat Bangalore Mahanagara Palike limits.
3. The provisions made in the estimate are necessary and essential.
4. The Rates adopted in the estimate are based on PW,P & IWTD,Bangalore Circle S.R 2011-12 and 2014-15

Assistant Engineer
Projects - Yelahanka

Asst. Executive Engineer
Projects - Yelahanka

Executive Engineer
Projects - Yelahanka

Chief Engineer
Yelahanka Zone
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